



REGISTERED DATA SHEET PERFORATING SYSTEM EVALUATION, API RP 19B SECTION 1

Service Company Available to all Design Number					eight <u>32</u>	2gm,	RDX	powder, C	ase Material	Stee	ol	
Gun OD & Trade Name 4" High Shot Density Gun,RDX					, °F 330	1 hr30	5 3 hr	260 24 h	nr <u>230</u> 1	00 hr	200 hr	
Charge Name 4" Barracuda 32 gms RDX (DSC 03-02-18)					Maximum Pressure Rating 20.000 psi, Carrier Material Steel							
Manufacturer Charge Part No. TC27R Date of Manufacture Feb 06 th 2003					Shot Density Tested 6 Shots/ft							
Gun Type High Shot Density Gun 6 SPF 60° WL/TCP					Recommended Minimum ID for Running in.							
Phasing Tested 60 degrees, Firing Order X Top Down, Bottom Up												
Debris Description N/A			Debris Weig	ght	N/A gm/charge, Debris			N/A in ³ /charge				
Remarks Gun OD After shooting in Liquid 4.47In., in air 4,56In.												
SECTION 1 - CONCRETE TARGET												
Casing Data 5 ½" OD,	Weight 17 lb/ft,		L	L-80 API Grade,		Date of Section 1 Test			March 11 th 2003			
Target Data 90" OD,	Amount of Cer	nt of Cement 9555 lb., Amount of		of Sand	19110 lb., Amo			unt of Water 4970 lb.				
Date of Compressive Strength Test March 11th 2003 , Briquette Compressive Str					5812	psi,	Age of	Target	32	2	days	
Shot No.	No. 1 No.	. 2 No. 3	No. 4	No. 5	No. 6	No. 7	No. 8	No. 9	No. 10	No. 11		
Clearance, in		192 0.638	0.892	0.638	0.192	0.00	0.192	0.638	0.892	0.638		
Casing Hole Diameter, Short Axis, in		.394 0.391	0.416	0.390	0.458	0.390	0.403	0.425	0.415	0.451		
Casing Hole Diameter, Long Axis, in		409 0.435	0.425	0.415	0.461	0.405	0.411	0.458	0.426	0.452		
Average Casing Hole Diameter, in		402 0.413	0.421	0.403	0.460	0.398	0.407	0.442	0.421	0.452		
		.580 38.330	40.830	39.080	39.830	32.080	39.330	37.080	37.580	32.830		
Burr Height, in		0.053	0.056	0.061	0.052	0.088	0.074	0.057	0.056	0.085		
Shot No.	No. 12 No.	13 No. 14	No. 15	No. 16	No. 17	No. 18	No. 19	No. 20	No. 21	No. 22	Average	
Clearance, in	0.192 0	.00 0.192	0.638	0.892	0.638	0.192	0.00	0.192			_0.392	
Casing Hole Diameter, Short Axis, in	0.404 0	.390 0.384	0.374	0.401	0.415	0.400	0.436	0.407			0.408	
Casing Hole Diameter, Long Axis, in	0.419 0	.409 0.388	0.417	0.459	0.416	0.415	0.438	0.432			0.425	
Average Casing Hole Diameter, in	0.412 0	.400 0.386	0.396	0.430	0.416	0.408	0.437	0.420			0.417	
Total Depth, in	33.830 36	.455 36.330	35.830	<u>37.330</u>	33.830	31.830	34.830	35.830			36.424	
Burr Height, in	0.097 0	.031 0.090	0.029	0.078	0.077	0.081	0.030	0/034			0.062	
WITNESSING INFORMATION												
Date of Notice of Intent to Test: Jan 03 rd 2003 Witr				essed by:Smirnoff (API Certific						PI Certified)		
Other Activities Witnessed: Target Pouring Briquette: Preparation Testing X Burr Height Measurement X Samples Taken: Concrete X Casing X												
CERTIFICATION												
I certify that these tests were made according to the procedures as outlined in API RP 19B: Recommended Practices for Evaluation of Well Perforators, First Edition, November 2000.												
All of the equipment used in these tests, such as the guns, jet charges detonator cord, etc., was standard equipment with our company for the use in the gun being tested and was												
not changed in any manner for the test. Purthermore, the equipment was chosen at random from stock and therefore will be substantially the same as the equipment, which would be												
furnished to perforate a well to have depend on the perforator system described.												
X CERTIFIED BY RIO E. I.A. S.A. X.												
RECERTIFIED (Company) (Address)												